

**State of Michigan**  
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**Department of Environmental Quality**



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**Drinking Water Revolving Fund  
Final Intended Use Plan  
Fiscal Year 2008**

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**Prepared by:  
Revolving Loan and Operator Certification Section  
Environmental Science and Services Division  
and Water Bureau  
September 2007**

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# Table of Contents

I.	Introduction.....	3
II.	Structure of the Drinking Water Revolving Fund .....	4
III.	Advantages of the Drinking Water Revolving Fund .....	6
IV.	Long-Term Goals .....	6
V.	Short-Term Goals.....	7
VI.	Allocation of Funds.....	8
VII.	Criteria and Method for Distribution of Funds - Set Asides .....	9
VIII.	Criteria and Method for Distribution of Funds - Project Loans .....	13
IX.	Disadvantaged Community Status .....	14
X.	EPA Automated Clearinghouse Activities .....	14
XI.	Assurances.....	15
XII.	Output/Outcome Measures.....	15
XIII.	Public Review and Comment.....	16
XIV.	Origination of Documents .....	16

DWRF Final Project Priority List (PPL) for FY2008  
DWRF Final PPL Scoring for FY2008  
Category Costs for FY2008 Final PPL

## **I. INTRODUCTION**

Program details of Michigan's Drinking Water Revolving Fund (DWRF) are set forth in Part 54, Safe Drinking Water Assistance, MCL 324.5401-324.5421, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (Act 451).

The Michigan Department of Environmental Quality (DEQ), through the Environmental Science and Services Division (ESSD) and the Water Bureau (WB), administers the DWRF. In addition, the Michigan Municipal Bond Authority (Authority) is charged with administering DWRF funds through the Shared Credit Rating Act, 1985 PA 227, as amended (Act 227).

The DWRF provides reduced interest rate loan financing to qualified water suppliers to finance construction of their waterworks system projects. Projects may include new wells, new water treatment plants, storage facilities, upgrades or expansions to existing facilities, transmission lines, pumping facilities, and other related waterworks system improvements. Suppliers must meet federal and state program requirements, as well as demonstrate their ability to publicly finance their project and retire project debt. In addition to the loan provided by DEQ, suppliers also have the option to pay for part of their project with cash and other resources.

The DWRF is a state-managed program. This final Intended Use Plan (IUP) describes how the DEQ and the Authority will jointly administer the DWRF during fiscal year (FY) 2008. The Revolving Loan and Operator Certification Section (RLOCS) of the ESSD is charged with carrying out the program administration responsibilities. The WB will assess project priority, issue the necessary construction permits, and offer technical review and assistance throughout project planning, design, and construction. Financial administration of the program will be handled by the staff of the Authority.

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The Environmental Protection Agency (EPA) Region 5 staff will offer guidance and conduct annual program oversight reviews of the DWRF. The EPA serves as a helpful partner in creating and maintaining this program.

The relationship between the DEQ, the Authority, and the EPA is established in an Operating Agreement signed by authorized signatories from each agency. The Operating Agreement is incorporated into this IUP by reference and is available from the DEQ upon request.

This final IUP includes detail on specific project funding and identifies amounts to be set aside from federal capitalization grants for other uses authorized under the federal Safe Drinking Water Act (SDWA) and Part 54 of Act 451. A public hearing for the IUP and the Project Priority List (PPL) was held on August 22, 2007.

The DEQ certifies that it is recognized by the EPA as the primacy agency for management of the drinking water program. The priority system was developed and will be carried out each fiscal year by staff of the DEQ. The priority system is designed to provide assistance to those projects that will have the greatest impact in facilitating safe drinking water supplies.

## **II. STRUCTURE OF THE DWRF**

The financing structure of the DWRF is similar to the State Revolving Fund (SRF). For water suppliers who are municipalities with bonding authority, the DWRF will sell tax-exempt revenue bonds to provide money that will be used to reimburse communities for incurred project costs. As the DWRF reimburses suppliers, federal funds from the capitalization grant and the required state match will be transferred into a debt service reserve account to provide coverage for the leveraged bond issue. As the DWRF project construction progresses, project funds will be disbursed to the supplier from the bonds sold.

For FY2008, the DEQ is reverting to a direct loan structure, in part a response to reductions in state general appropriations for required match. In a direct loan structure, federal funds and state match, or fund assets that have 'revolved' back into the fund, are paid directly to municipal borrowers. Although a direct loan structure results in a lower lending capacity in the short-term, the long-term health/capacity of the fund is enhanced.

For borrowers who are non-municipal entities, limitations on private activity for tax-exempt issues will require the DEQ and the Authority to fund private water suppliers from funds other than tax-exempt revenue bonds. These loans will be made as direct loans with a letter of credit supplied by the private borrower or through a partnership with a private

lending institution with the state providing an insurance annuity. There are no private water suppliers on the FY2008 final PPL.

There is a provision for subordinate investment of funds between the DWRF and the SRF. This concept permits the administrators of the two funds to make temporary investments from one fund or the other in the event that moneys are needed to service debt on the state's tax exempt bond issues, cover deficiencies in a fund's reserve accounts, or satisfy other reserve account requirements. Only those funds periodically released from debt service reserve accounts, supplemental reserve accounts, revenue accounts, or any other account of the fund, wherein released moneys may be generated, may be used for the purposes of subordinate investment. This provision will not be exercised in FY2008.

At each point that moneys are released, the DEQ and the Authority will undertake a "snapshot" look at both the SRF and the DWRF. For each fund, we will first examine whether we need to service debt or satisfy reserve account requirements within the fund from which the released moneys originated. Next, we will examine the other fund for the same conditions. Then, if sufficient moneys are available to satisfy requirements for each fund, the released money will pass completely through and become available for future commitments to new projects consistent with its source.

Set-asides in the DWRF are derived from the capitalization grant awarded to the state by the EPA. Set-asides are designated for specified uses within the DWRF to address areas of concern included in the reauthorization of the SDWA. Legal provisions included in Act 227, permit the Authority and DEQ to establish accounts and sub-accounts to track revenues and expenditures for the set-asides. The set-asides for program and other activities will be directly administered by the WB. Staff of the WB will also be responsible for the technical assistance activities, except for those funds made available to subsidize loans to disadvantaged communities. The disadvantaged community loans will be managed by the RLOCS.

The following is a list of potential set-asides identified in Section 1452 of the SDWA.

**DWRF Administration - 4 percent**

**Technical Assistance - 2 percent**

**Program Set-asides - 10 percent**

- Public Water System Supervision
- Source Water Protection
- Capacity Development
- Operator Certification

**Other Activities - 15 percent, not to exceed 10 percent for any one activity**

- Loans for Source Water Protection
- Assistance for Capacity Development
- Implement Wellhead Protection

It is imperative to note that the program set-asides require a one-for-one state match, in addition to the regular 20 percent state match calculated on the entire amount of the

federal capitalization grant. Thus, money diverted to these set-asides will demand a heavier investment of state or local funds.

### **III. ADVANTAGES OF THE DWRF**

The primary advantage for Michigan water suppliers will be their ability to borrow funds at interest rates below market. The DWRF interest rate is established prior to each new fiscal year. As identified in Part 54 of Act 451, determination of the interest rates is based on demand, market conditions, program costs, and future needs.

In setting the interest rates for FY2008, the DEQ examined a widely used market index for general obligation municipal bonds to identify current market conditions existing at the time the IUP is prepared. Then, to establish a rate of interest for municipal borrowers, the DEQ considered present and future demand for DWRF assistance and the cost of compliance.

Once the interest rate is determined for municipal borrowers, the resulting interest subsidy to municipalities would be used for private borrowers. If a private borrower chose to obtain a letter of credit and receives a direct DWRF loan from the Authority, the interest rate would be determined by using the U.S. T-bill rate as the base and applying an identical percentage reduction of interest as municipalities receive. For those private borrowers who chose to obtain financing through a financial institution, the interest rate would be the lending institution's rate charges, reduced by an identical percentage reduction as a municipality would receive.

The interest rate for municipal borrowers in FY2008 is 2.5 percent. Private borrowers would receive an interest rate subsidy that equates to the same subsidy received by municipal borrowers.

Apart from the low interest rate, suppliers also benefit from the DWRF in that they can finance all eligible waterworks system costs. The major benefit results from the fact that water supply financing in the past has always been left to the local units of government or private entities. Historically, there has been no significant state financial assistance available to local officials in meeting water supply needs. The DWRF provides an ongoing source of funding to maintain or improve drinking water quality and public health.

### **IV. LONG-TERM GOALS**

Michigan's DWRF establishes a funding source designed to protect and preserve public health within the state's boundaries. Michigan's geographical identity as a "Great Lakes" state affords its citizens with an abundant and high quality water resource from which to draw its drinking water. Unlike many states, Michigan water supplies are plentiful and periods of restricted use are few in most communities. The great challenge for water suppliers lies in protecting the high quality of the resource, as well as ensuring that adequate volume and pressure exist to deliver potable water to the customer.

Given the limitations on pooled capital, the DEQ will work toward establishing tighter integration of the federal, state, and local partnership. The DEQ continues to examine ways to work together with various federal and state agencies, such as Rural Development and the Michigan Department of Labor and Economic Growth, so that we may collectively fund qualifying projects and maximize use of our capital pool to achieve our stated goals.

Such partnerships will ultimately benefit everyone. Industry, tourism, and day-to-day quality of life are strengthened when our most valuable natural asset is preserved and made available for our use and enjoyment. To this end, Michigan's DWRf seeks the following:

- A. To maintain statewide compliance with all applicable state and federal drinking water laws, rules, and standards.
- B. To protect the public health and environmental quality of our state.
- C. To maintain source water assessment, wellhead protection, and source water protection programs.
- D. To develop strategies within the DWRf to assist smaller, economically disadvantaged communities in meeting drinking water standards.
- E. To promote the DWRf as a viable tool for use by Michigan water suppliers in financing their waterworks system improvements or upgrades.
- F. To secure Michigan's full share of federal funding and to expeditiously obligate these moneys, along with the state contributions, for the construction of eligible facilities that meet state and federal requirements.
- G. To develop effective partnerships with other federal and state financing sources to promote efficiency in environmental review procedures and coordination of funding.
- H. To apply a capacity assessment program for all new and existing community and nontransient noncommunity water supplies.
- I. To continue operator certification program requirements to assure proper operation and maintenance of public water systems.

## **V. SHORT-TERM GOALS**

In order to accomplish the long-term goals, we must also focus on more immediate objectives. Therefore, our short-term goals in FY2008 are:

- A. To continue our outreach effort to publicize the DWRf through direct mail, electronic media, newsletter publication, and meetings.
- B. To continue implementation plans for source water protection focused on statewide surface water assessments and groundwater assessments in areas tributary to the Great Lakes.
- C. To continue the state's wellhead protection program through the implementation of a matching grant program.
- D. To continue a technical assistance program for small communities.

- E. To fund projects identified on the PPL enabling them to proceed during FY2008 with construction of facilities included in their adopted project plans.
- F. To continue to invite stakeholder participation in the development of administrative rules for conducting capacity assessments of certain public water supplies.
- G. To ensure that funded projects have reviewed and considered the security needs of the water system.

## VI. ALLOCATION OF FUNDS

The establishment of a fundable range under a leveraged program structure for any given fiscal year entails a series of steps that culminate in a determination of how much fund resources could support. Using a series of interest rate assumptions (DWRF loan rate, return on investment rates, and revenue bond rate) this process for FY2008 is outlined below:

1. The DEQ reviewed the total amount of loans committed through September 30, 2007, and other draw amounts that affect the DWRF.

Total loan commitments through 9/30/07	\$480,950,000
Less reduction in loans for admin. complete projects	(\$ 5,942,055)
Less direct loan draws to date	(\$ 6,667,723)
Less total revenue bonds issued to date	(\$400,435,000)
<b>Additional revenue bond amount needed to service existing loan commitments</b>	<b>\$ 67,905,222</b>

2. The DEQ assumed that the new federal capitalization grant and the required state match would remain constant for the next five years (for planning purposes only). The current national budget estimated amount for the DWRF in FY2008 is \$850 million.
3. The DEQ then looked at how much the DWRF could support using a five-year forecast. After subtracting the amount needed to service existing loans, fund resources could support \$92 million in new binding loan commitments for FY2008. The total amount of projects seeking DWRF loans in FY2008 is estimated at \$75 million (amount taken from the PPL).

Reversion to a direct loan structure will provide @ \$60 million of lending capacity per year, during the five-year planning period. A direct loan structure will, however, result in higher lending capacities in out years and maximize the fund's ability to compensate for the loss of state match funds that have resulted from general fund budget cuts in recent years. For FY 2008 the state opted to revert to a direct loan structure.

Each state may transfer 33 percent of available funds between the SRF and the DWRF programs. This may occur starting one year after a state receives its first capitalization grant for project funds. At this time, Michigan does not propose to directly transfer funds between the SRF and DWRF programs.



## **VII. CRITERIA AND METHOD FOR DISTRIBUTION OF FUNDS - SET-ASIDES**

The DEQ has established the set-aside percentages based on what it can utilize within the fiscal year. The split of moneys is structured to meet not only expected needs (e.g., four percent for administration), but also to target programs that can help suppliers prepare themselves to qualify for DWRF loans (e.g., technical assistance funds used to defray planning costs).

### **Administration**

Up to four percent of the federal capitalization grant can be used to administer the fund. Michigan intends to utilize the full four percent, which for FY2008 is estimated at \$1,138,680. Any funds not utilized in FY2008 will be retained on account for administration costs in future years.

### **Technical Assistance**

The Technical Assistance set-aside program for FY2008 will be \$300,000 or approximately 1.05 percent of the expected federal grant award for the DWRF.

Two existing contracts for providing technical assistance were scheduled to expire in FY 2007 are expiring this year. The program cannot renew these contracts. Those contracts addressed arsenic compliance and development of training modules for small community water systems.

The DEQ utilizes .75 Full Time Employees (FTEs) funded through this set-aside to administer an on-line data management system (the Wellogic Data System) for active and abandoned wells. The activities include development and maintenance of the system and training for system users.

The DEQ utilizes 1.0 FTE to support technical staff who provide direct assistance to small systems employing treatment for compliance, especially the new treatment applications for removal of arsenic.

The DEQ will also use technical assistance set-aside funds to the extent funds are available (no eligible community has been denied funding to date), to pay for project planning costs for disadvantaged communities with less than 10,000 people who apply for DWRF assistance. Finally, funds will be used to provide direct financial planning assistance to certain small community water systems with deficiencies found in a sanitary survey.

### **Program Set-Asides - \$2,075,000**

The DEQ intends to continue four programs in FY2008 using program set-asides. The additional required matching funds will be provided through the Public Water System Supervision Program from state General Fund and Restricted Fund (Fee) revenue plus the perpetual match from the FY1993 Public Water System Supervision matching money. The following is a breakdown of the \$2,075,000 projected amount:

**Capacity Development** - State staff, augmented by contracts for services with local public health departments (LHD), are being used to implement the program

based upon EPA guidance and our policies for new systems. The 1998 amendments to the Michigan Safe Drinking Water Act, 1976 PA 399, as amended, (Act 399), provided authorization to conduct the program. The amendments allow the DEQ to apply capacity assessment criteria to new community and non-transient non-community public water supplies, DWRF applicants and existing systems selected under a state strategy. The DEQ developed guidance using stakeholders for public participation.

For FY2006, the LHDs were reimbursed for conducting capacity assessment on 32 new non-transient non-community water systems totaling \$4,800. Fifteen new community systems were also approved in FY2006. These systems submitted financial information to be reviewed before approval to commence operation was granted. The DEQ allocates \$10,000 per year for the cost of assessing the financial capacity of these new community systems. For FY2007 and FY2008, similar numbers of new community and non-transient non-community systems are expected.

In FY2006, the DEQ also increased education and outreach efforts by cosponsoring a newsletter delivered four times a year to all community public water systems. The newsletter promotes better operation and maintenance practices and provides regulatory guidance. DEQ will continue to cosponsor the newsletter in FY2008.

The total project amount to be expended is \$450,000 (all federal funds).

**Source Water Protection** – The total project amount for this activity is \$675,000 (all federal funds). It is split between several activities, the well abandonment program, the state groundwater database, the source water protection program, and the on-site wastewater program.

#### Abandoned Well Management Program

The DEQ utilizes .5 FTEs to administer and conduct a statewide, comprehensive Abandoned Well Management (AWM) Program. There are four components to the AWM program: data management, public education, enforcement, and state cost share grants.

Beginning in FY2002, the DEQ is administering 65 state matching grants encumbering \$3.2 million in Clean Michigan Initiative (CMI) bond funds for communities to locate and plug abandoned wells identified inside their wellhead protection areas. The expected completion date for the fieldwork associated with this group of projects is September 30, 2007. The completion date for final project reporting is October 30, 2007. Staff will continue to provide technical assistance and educational outreach materials to promote plugging of abandoned wells in wellhead protection areas.

Plugging all of the identified abandoned wells, using state cost share dollars, has been limited due to state funding limitations. The DEQ intends to continue to pursue identification of potential sources of funding to continue the AWM grants program in FY2008.

A statewide abandoned well public education and enforcement program is conducted by the DEQ utilizing 43 LHDs basic services contracts. The DEQ will continue to provide training and technical support to the LHDs involving abandoned well plugging requirements. In addition, the DEQ will provide direct enforcement assistance and public education materials for distribution.

#### State Ground Water Database

The DEQ utilizes .75 FTEs funded through this set-aside to administer an on-line computerized data management system (the Wellogic Data System) for active and abandoned wells to assist with development and maintenance of the system and to provide training to system users.

#### Surface-Source Water Protection

The DEQ proposes to utilize .5 FTEs funded through this set-aside in FY2008 to continue the Source Water Protection Program serving 70 communities that use surface water as their drinking water source. The funding will allow DEQ to facilitate the development of surface water related source water protection activities in these communities.

#### On-site Wastewater Program

Continuing in FY2008, the DEQ will utilize this set-aside to provide bridge funding for the on-site wastewater program. This program provides assistance to LHDs for installation of on-site wastewater systems. This funding will be necessary until the state adopts a statewide sanitary code that will include fees that will support the on-site program. The funding will support 4.6 FTEs plus funds for LHD training.

The DEQ utilizes the balance of this set-aside to fund special pilot projects associated with abandoned well management and to fund data management support services provided by the Michigan Department of Information Technology.

**Operator Certification** - The ESSD continues to administer the program through expansion and improvement of the existing waterworks operator certification program. The EPA approved the Operator Training and Certification Program in July 2001. Based upon the activities required for continued program approval, the DEQ has estimated the costs to expand/revise the program.

The majority of the estimated annual cost of the program, \$400,000, is for permanent staff (4 FTEs). Four staff work exclusively on drinking water training and certification program issues. A fifth FTE (a Michigan Department of Information Technology computer programmer), is assigned part-time to the Operator Training and Certification Unit (OTCU) to work exclusively on the OTCU database tracking system. The tracking system includes data management equipment and support services for recordkeeping and compliance tracking. The remaining funds (\$50,000) will be for certification examination and renewal; training services and outreach; and exam validation activities, and development activities for community and non-community operators and systems. The total project amount for the Operator Training and Certification Program elements is \$450,000 (all federal funds).

**Public Water System Supervision** – The WB is continuing to experience increasing costs to support existing staff in the drinking water program, resulting

from decreasing or stable federal grants and no new state general fund support. Work responsibilities continue to increase with promulgation of new drinking water regulations: recently, Title 40 of the Code of Federal Regulations, (CFR), Parts 9, 141, and 142, National Primary Drinking Water Regulations: the Arsenic Rule; the Ground Water Rule; and the Long Term 2 Enhanced Surface Water Treatment Rule, and CFR Part 141: Stage 2 Disinfectants and Disinfection Byproducts Rule.

The DEQ proposes to withhold \$500,000 (all federal funds) in FY2008 to support existing staff and the existing scope of program. No additional staff is proposed. This will allow the DEQ additional management flexibility to address priority work efforts, including the highest priority activities associated with the new drinking water regulations.

#### **Wellhead Protection (Section 1452(k)) - \$1,000,000**

The DEQ has authorization under the Act 399 to implement a wellhead protection matching grant program to enhance the existing voluntary state program. A stakeholder process adopted the administrative rules.

Approximately 2.5 FTEs support the program. In addition, contract services include: wellhead protection outreach; education and training of water system personnel; and database enhancements and maintenance. DEQ intends to initiate a new contract in FY2008 to support the development and use of the new “probabilistic” wellhead protection model for small systems. The remaining amount, approximately \$600,000, will be for Wellhead Protection Grants. The grant funds are matched 100 percent by public water system awardees. The program emphasis is scientific delineation of wellhead protection areas, obtaining state approval for complete wellhead protection programs, and implementation activities.

The following table depicts the history of wellhead protection grants in Michigan:

Fiscal Year	Number of Communities	Grant Dollars Awarded
1999	54	\$1,014,044
2000	62	\$1,080,390
2001	66	\$1,044,266
2002	85	\$1,286,589
2003	84	\$1,260,180
2004	67	\$ 857,772
2005	57	\$ 848,143
2006	50	\$ 682,029
2007	43	\$ 677,629

#### **IX. CRITERIA AND METHOD FOR DISTRIBUTION OF FUNDS - PROJECT LOANS**

Michigan’s DWRF will commit loans for qualified projects based on project plans that were submitted to the RLOCS by May 1, 2007. Plans were reviewed by staff of the DEQ to ensure compliance with Section 5405 of Act 451, before being placed on the PPL for FY2008. The DWRF must, to the maximum extent practicable, give priority to projects that:

- address the most serious risks to human health;

- are necessary to ensure compliance with the requirements of the federal SDWA;
- and assist systems most in need according to the state's affordability requirements.

Michigan's priority system takes these factors into account in the assignment of priority points. Acute violations receive a larger number of points than any other category. In fact, standard compliance offers over 41 percent of a project's total possible points. All factors point to the need for the project to comply with federal drinking water requirements, affordability is addressed by the award of additional points for disadvantaged community status, and is the ultimate tiebreaker. Michigan's priority point system is detailed in Section 5406 of Act 451.

The FY2008 DWRP final PPL is included as part of the IUP. The DWRP final PPL has 35 projects totaling \$158 million. This includes 12 projects and/or segments equaling \$84 million that will be considered for funding in the future.

Section 1452(a)(2) of the SDWA requires the state to first make available 15 percent of all funds annually credited to the DWRP for financial assistance to water suppliers serving fewer than 10,000 persons. For FY2008, Michigan must reach or exceed \$4,275,000 to satisfy this requirement.

All projects are reviewed and scored based upon the priority point system outlined in Part 54 of Act 451. Funds are made available for commitment based on the priority ranking and projects will only be funded out of order to satisfy requirements for small community assistance.

Employing the criteria found in Section 5415 of Act 451, the Director of the DEQ set the interest rate at 2.5 for FY2008. The term of the loan will run up to 20 years for most projects. Those suppliers meeting disadvantaged community criteria will, however, be able to extend their terms for up to 30 years, if they desire.

Part 54 of Act 451 also permits suppliers serving less than 10,000 persons to receive reimbursement of project planning costs upon delivery of an approvable project plan to the DEQ. Legislation has been passed to provide a funding mechanism for this reimbursement. Interim planning loans first became an option for DWRP applicants in FY2001.

## **X. DISADVANTAGED COMMUNITY STATUS**

Disadvantaged community status is determined by the DEQ based on information submitted with a supplier's project plan. To qualify, an applicant must first meet the definition of "municipality" found in Part 54 of Act 451. Next, the updated median annual household income (MAHI) of the area to be served must be less than 120 percent of the state's updated MAHI. Finally, the costs of the project must be borne by the customers in the service area. If costs are spread over a larger area, then that area must demonstrate that it meets the poverty or affordability criteria.

Once these conditions are met, a community will be awarded the disadvantaged community status if one of the following is true:

- More than 50 percent of the area to be served by the proposed project is identified as a poverty area by the U.S. Census Bureau.
- The updated MAHI of the area to be served is less than the most recently published federal poverty guidelines for a family of four in the contiguous United States.
- The updated MAHI is less than the updated statewide MAHI and the annual user costs for water supply exceed 1.5 percent of the service area's MAHI.
- The updated MAHI is more than the updated statewide MAHI and the annual user costs for water supply exceed 3 percent of the service area's MAHI.

The major benefits for qualified communities include 50 additional priority points, extension of loan terms to 30 years, and assistance to help defray the costs of preparing project plans. In FY2008, there are no projects that qualify for disadvantaged community status on the final PPL.

A complete discussion of the disadvantaged community status may be found in a guidance document prepared by the DEQ to more fully explain how a supplier can achieve the status and benefit from it. RLOCS staff encourages all applicants to supply the pertinent data to perform a disadvantaged community status analysis.

## **XI. EPA AUTOMATED CLEARINGHOUSE ACTIVITIES**

The EPA employs an Automated Standard Application for Payments (ASAP) system to make disbursements of federal funds to the DWRF. Michigan will comply with this system and deposit funds drawn from it into appropriate accounts set up for the DWRF.

Beginning fourth quarter in FY2008, Michigan anticipates drawing capitalization grant funds from the ASAP system.

One request for disbursement may be submitted by the local project's authorized representative (or state agencies) each month. As project costs (or program administrative/set-aside costs) are incurred, the request for disbursement of funds will be sent directly to the DEQ, who will then process the request as part of a weekly draw request. Upon delivery to its office, the Authority will execute the fund drawdown electronically by transferring money from the ASAP and state accounts.

Moneys will be automatically deposited into the debt service reserve account of the DWRF, while funds are electronically wired to a municipal water supplier's bank from a DWRF account. For non-municipal water suppliers, the funds will be transferred from direct federal and state capitalization amounts established specifically for the purpose of reimbursing their eligible project costs.

## **XII. ASSURANCES**

The final guidelines from the EPA set forth provisions that the state must provide certain assurances in order to qualify for capitalization grant funding. Such assurances are incorporated into the Operating Agreement and are included here by reference.

## **XIII. OUTPUT/OUTCOME MEASURES**

To comply with the EPA requirements on Environmental Benefits of the DWRF, Michigan estimates that the following outputs will result from project loans in FY2008 (excluding any projects noted as future on the PPL):

- A. Output: Michigan will fund approximately 21 drinking water transmission/distribution loans in FY2008 to construct/rehabilitate/upgrade drinking water transmission and distribution systems across the state. The total dollar amount of these loans will be approximately \$61,743,139.

Outcome: The funding of these projects will result in more people getting better drinking water from current and existing treatment systems in Michigan.

- B. Output: Michigan will fund approximately 5 drinking water treatment projects in FY2008 to construct and/or rehabilitate drinking water treatment facilities across the state. The total dollar amount of these loans will be approximately \$2,868,504.

Outcome: The funding of these projects will result in better drinking water for thousands of people in Michigan and, upon completion of the projects, facilities that meet all applicable permits and SDWA requirements.

- C. Output: Michigan will fund approximately 3 drinking water storage projects in FY2008 to construct and/or rehabilitate drinking water storage facilities across the state. The total dollar amount of these loans will be approximately \$3,985,047.

Outcome: The funding of these projects will result in improved drinking water and storage facilities that meet all applicable permits and SDWA requirements.

- D. Output: Michigan will fund approximately 5 drinking water source projects in FY2008 to construct and/or rehabilitate drinking water source facilities across the state. The total dollar amount of these loans will be approximately \$5,653,310.

Outcome: The funding of these projects will result in improved drinking water for thousands of people across Michigan.

Please note that the number of loans will not agree with the number on the PPL, as many of the project loans include work in more than one category (i.e. transmission/distribution, treatment, storage and source).

## **XIV. PUBLIC REVIEW AND COMMENT**

In order to satisfy public participation requirements, the DEQ held a public hearing to discuss the DWRF Draft IUP on August 22, 2007. The hearing was publicly noticed in the Detroit Legal News, the Lansing State Journal, and the Marquette Mining Journal; posted

on the DEQ calendar of events; mailed to all persons and engineering firms on our newsletter mailing list, and individually noticed to each water supplier on the FY2008 Draft PPL. These sources promote the hearing to ensure maximum public input from those interested in the DWRF. The hearing affords stakeholders and other interested parties an opportunity to hear and comment on how the DEQ plans to disburse the DWRF loan funds. All comments were responded to upon the close of the hearing record.

Questions about the DWRF final IUP may be directed to:

**Mr. Chip Heckathorn, Chief  
Revolving Loan and Operator Certification Section  
Environmental Science and Services Division  
Department of Environmental Quality  
P.O. Box 30457  
Lansing, MI 48909  
517-373-4725  
Fax: 517-335-0743**

#### **XV. ORIGINATION OF DOCUMENTS**

The Chief of the ESSD/RLOCS, DEQ, is responsible for issuing the DWRF Final IUP. The DWRF Final IUP and its accompanying information are prepared by the RLOCS. It is a collaborative effort by the WB and ESSD/RLOCS staff to provide data for its development.



**Fiscal Year 2008 Project Priority List By Rank**

Rank	Project Number	Project Name and Description			Population	Point Total	Bind. Com Date	Bind. Com Amount
PROJECTS WITHOUT PRIOR YEAR SEGMENTS								
1	7242-01	Milford	Oakland Co	Iron removal; Repl/Extend mains	6,272	780	6/5/2008	\$1,450,000
2	7224-01	Peninsula Twp	Grand Traverse Co	New strg; trans mains; prv/booster sta	820	645	3/13/2008	\$2,520,000
3	7236-01	St Joseph	Berrien Co	Water sys upgrd (Phase 1- new strg)	27,836	565	3/13/2008	\$3,075,000
4	7237-01	St Joseph	Berrien Co	Water sys upgrd (Phase 2 - new intake)	27,836	565	6/5/2008	\$7,415,000
5	7238-01	St Joseph	Berrien Co	Water sys upgrd (future phases)	27,836	565	Future	\$15,080,000
6	7245-01	Ravenna	Muskegon Co	Phase 2 - looping	1,238	545	Future	\$200,000
7	7239-01	Ravenna	Muskegon Co	Phase 1 - WTP/well	1,238	545	8/29/2008	\$1,000,000
8	7233-01	Oakland Co	Wolverine Lake	Consolidation w/ DWSD	182	485	11/21/2007	\$470,000
9	7225-01	Wexford Co	Cedar Creek Twp	New PWS (well; distribution)	133	485	6/5/2008	\$7,715,000
10	7217-01	Ferndale	Oakland Co	Repl mains	22,108	465	6/5/2008	\$1,300,000
11	7235-01	Ford River Twp	Delta Co	2nd river crossing; meters	337	460	3/13/2008	\$650,000
12	7243-01	Perry	Shiawassee Co	WTP/well/mains	2,391	445	6/5/2008	\$1,610,000
13	7252-01	Lansing Twp	Ingham Co	Repl mains (Phase 2)	5,000	430	Future	\$485,000
14	7253-01	Lansing Twp	Ingham Co	Repl mains (Phase 3)	5,000	430	Future	\$650,000
15	7151-01	Lansing Twp	Ingham Co	Rehab storage; looping (Phase 1)	5,000	430	6/5/2008	\$510,000
16	7250-01	Stockbridge	Ingham Co	Repl mains/looping (Phase 2)	1,290	395	3/13/2008	\$850,000
17	7177-01	Stockbridge	Ingham Co	Future phases; repl mains/looping	1,290	395	Future	\$1,800,000
18	7232-01	Scio Twp	Washtenaw Co	2nd trans main from Ann Arbor	9,000	380	3/13/2008	\$4,600,000
19	7234-01	Hancock	Houghton Co	Repl trans/dist mains; 2nd conn; looping	4,323	380	3/13/2008	\$3,550,000
20	7010-99	Sault Ste Marie	Chippewa Co	Future segs; repl mains (CSO areas)	14,689	340	Future	\$6,000,000
21	7246-01	Grand Beach	Berrien Co	Repl mains; looping	221	335	3/13/2008	\$625,000
22	7248-01	Ypsilanti	Washtenaw Co	Repl mains (1st Ave Public Housing)	78,154	325	6/5/2008	\$310,000
23	7240-01	Detroit	Wayne Co	Repl mains	1,000,000	325	3/13/2008	\$6,450,000
24	7247-01	YCUA	Washtenaw Co	Repl mains (Holmes Rd- Phase 2 - twp)	78,154	325	11/21/2007	\$1,945,000
25	7173-01	YCUA	Washtenaw Co	Future phases (city/twp-thru FY2010)	78,154	325	Future	\$3,470,000
26	7218-01	West Bloomfield Twp	Oakland Co	Phase 2: Repl mains, looping, PRVs	56,000	325	3/13/2008	\$14,775,000
27	7228-01	Monroe	Monroe Co	Repl/rehab mains; looping (Phase 3)	45,436	315	Future	\$4,055,000
28	7227-01	Monroe	Monroe Co	Repl/rehab mains; looping (Phase 2)	45,436	315	Future	\$4,155,000
29	7221-01	Port Huron	St Clair Co	Repl mains - Woodstock Phase IV/V	32,338	315	6/5/2008	\$3,080,000
30	7226-01	Monroe	Monroe Co	Repl/rehab mains; looping (Phase 1)	45,436	315	6/5/2008	\$4,420,000
31	7180-01	Fenton	Genesee Co	Repl mains, looping	11,907	315	Future	\$1,930,000
32	7131-01	Port Huron	St Clair Co	Future phases; repl mains; looping	32,338	315	Future	\$43,585,000
33	7229-01	Flushing	Genesee Co	Repl mains	8,348	305	3/13/2008	\$1,415,000
34	7251-01	River Rouge	Wayne Co	Repl mains/valves (Phase 2)	9,395	305	Future	\$2,775,000
35	7244-01	River Rouge	Wayne Co	Repl mains/meters/valves (Phase 1)	9,395	305	3/13/2008	\$4,515,000
35	Projects							\$158,435,000

Category Description	Points	7010-99	7131-01	7151-01	7173-01	7177-01	7180-01	7217-01	7218-01	7221-01	7224-01	7225-01	7226-01	7227-01	7228-01	7229-01	7232-01	7233-01
<b>DRINKING WATER SYSTEM COMPLIANCE - TOTAL</b>	<b>450 (max)</b>	150	150	150	150	150	150	175	150	150	175	225	150	150	150	150	150	225
Acute Viol. of DW Standards, Health Advisory Levels, SWTT, Disease	250																	
Non-Acute Viol. of DW Standards, Health Advisory Levels, SWTT, Disease	200											■						■
Facility Upgrade to Maintain Compliance	150	■	■	■	■	■	■	■	■	■	■		■	■	■	■	■	
Aesthetic Upgrades to Maintain Compliance	25							■			■	■						■
<b>INFRASTRUCTURE IMPROVEMENTS/UPGRADES - TOTAL</b>	<b>350 (max)</b>	150	125	150	125	125	125	250	125	125	350	250	125	125	125	125	100	150
Source/Treatment w/ Connecting Mains	125 (max)	0	0	0	0	0	0	0	0	125	125	125	0	0	0	0	100	125
Meet Minimum Capacity	100									■	■	■					■	■
Reliability	75									■		■						
Other Upgrades	25									■		■						
Enforcement Action	25											■						■
Source Water Protection	50										■	■						
Transmission/Distribution Mains	125 (max)	125	125	125	125	125	125	125	125	0	125	125	125	125	125	125	0	25
Meet Minimum Capacity	100	■	■	■	■	■	■	■	■		■	■	■	■	■	■		
Reliability	75	■	■	■		■	■	■	■		■	■	■	■	■	■		
Other Upgrades	25	■	■		■	■	■		■		■	■	■	■	■	■		■
Enforcement Action	25											■						
Storage Facilities/Pumping Stations	125 (max)	25	0	25	0	0	0	125	0	0	125	0	0	0	0	0	0	0
Meet Minimum Capacity	100							■			■							
Reliability	75							■			■							
Other Upgrades	25	■		■				■			■							
Enforcement Action	25																	
<b>POPULATION - TOTAL</b>	<b>50 (max)</b>	40	40	30	50	20	40	40	50	40	20	10	40	40	40	30	30	10
0-500	10		■									■						■
501-3,300	20			■	■	■	■				■							
3,301-10,000	30	■		■												■	■	
10,001-50,000	40	■	■			■	■	■	■	■			■	■	■			
>50,000	50				■			■	■		■	■						
<b>DISADVANTAGED COMMUNITY - TOTAL</b>	<b>50 (max)</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Granted	50																	
<b>CONSOLIDATION - TOTAL</b>	<b>100 (max)</b>	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100
Achieve Compliance	100										■							■
Correct Deficiencies	60																	
Other	40																	
<b>COMP. WELLHEAD/SOURCE WATER PROTECT PLANS - TOTAL</b>	<b>100 (max)</b>	0	0	100	0	100	0	0	0	0	0	0	0	0	0	0	100	0
Granted	100			■		■											■	
<b>TOTAL PRIORITY POINTS ASSIGNED</b>	<b>1000 (max)</b>	340	315	430	325	395	315	465	325	315	645	485	315	315	315	305	380	485

Category Description	Points	7234-01	7235-01	7236-01	7237-01	7238-01	7239-01	7240-01	7242-01	7243-01	7244-01	7245-01	7246-01	7247-01	7248-01	7250-01	7251-01	7252-01
<b>DRINKING WATER SYSTEM COMPLIANCE - TOTAL</b>	<b>450 (max)</b>	150	350	175	175	175	175	150	375	175	150	175	200	150	150	150	150	150
Acute Viol. of DW Standards, Health Advisory Levels, SWTT, Disease	250																	
Non-Acute Viol. of DW Standards, Health Advisory Levels, SWTT, Disease	200		■						■				■					
Facility Upgrade to Maintain Compliance	150	■	■	■	■	■	■	■	■	■	■	■		■	■	■	■	■
Aesthetic Upgrades to Maintain Compliance	25			■	■	■	■		■	■		■						
<b>INFRASTRUCTURE IMPROVEMENTS/UPGRADES - TOTAL</b>	<b>350 (max)</b>	200	100	350	350	350	250	125	275	250	125	250	125	125	125	125	125	150
Source/Treatment w/ Connecting Mains	125 (max)	75	0	125	125	125	125	0	125	125	125	125	0	0	0	0	0	0
Meet Minimum Capacity	100			■	■	■	■		■	■	■	■						
Reliability	75	■		■	■	■	■		■	■		■						
Other Upgrades	25			■	■	■					■							
Enforcement Action	25																	
Source Water Protection	50			■	■	■	■		■			■						
Transmission/Distribution Mains	125 (max)	100	100	125	125	125	125	125	125	100	0	125	125	125	125	125	125	125
Meet Minimum Capacity	100			■	■	■	■	■	■			■	■	■	■	■	■	■
Reliability	75	■	■	■	■	■	■	■		■		■	■			■		■
Other Upgrades	25	■	■						■	■			■	■	■	■	■	
Enforcement Action	25																	
Storage Facilities/Pumping Stations	125 (max)	25	0	125	125	125	0	0	25	25	0	0	0	0	0	0	0	25
Meet Minimum Capacity	100			■	■	■												
Reliability	75																	
Other Upgrades	25	■		■	■	■			■	■								■
Enforcement Action	25																	
<b>POPULATION - TOTAL</b>	<b>50 (max)</b>	30	10	40	40	40	20	50	30	20	30	20	10	50	50	20	30	30
0-500	10		■										■					
501-3,300	20						■			■		■				■		
3,301-10,000	30	■							■		■						■	■
10,001-50,000	40			■	■	■												
>50,000	50							■						■	■			
<b>DISADVANTAGED COMMUNITY - TOTAL</b>	<b>50 (max)</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Granted	50																	
<b>CONSOLIDATION - TOTAL</b>	<b>100 (max)</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Achieve Compliance	100																	
Correct Deficiencies	60																	
Other	40																	
<b>COMP. WELLHEAD/SOURCE WATER PROTECT PLANS - TOTAL</b>	<b>100 (max)</b>	0	0	0	0	0	100	0	100	0	0	100	0	0	0	100	0	100
Granted	100						■		■			■				■		■
<b>TOTAL PRIORITY POINTS ASSIGNED</b>	<b>1000 (max)</b>	380	460	565	565	565	545	325	780	445	305	545	335	325	325	395	305	430

Category Description	Points	7253-01																
<b>DRINKING WATER SYSTEM COMPLIANCE - TOTAL</b>	<b>450 (max)</b>	150																
Acute Viol. of DW Standards, Health Advisory Levels, SWTT, Disease	250																	
Non-Acute Viol. of DW Standards, Health Advisory Levels, SWTT, Disease	200																	
Facility Upgrade to Maintain Compliance	150	■																
Aesthetic Upgrades to Maintain Compliance	25																	
<b>INFRASTRUCTURE IMPROVEMENTS/UPGRADES - TOTAL</b>	<b>350 (max)</b>	150																
Source/Treatment w/ Connecting Mains	125 (max)	0																
Meet Minimum Capacity	100																	
Reliability	75																	
Other Upgrades	25																	
Enforcement Action	25																	
Source Water Protection	50																	
Transmission/Distribution Mains	125 (max)	125																
Meet Minimum Capacity	100	■																
Reliability	75	■																
Other Upgrades	25																	
Enforcement Action	25																	
Storage Facilities/Pumping Stations	125 (max)	25																
Meet Minimum Capacity	100																	
Reliability	75																	
Other Upgrades	25	■																
Enforcement Action	25																	
<b>POPULATION - TOTAL</b>	<b>50 (max)</b>	30																
0-500	10																	
501-3,300	20																	
3,301-10,000	30	■																
10,001-50,000	40																	
>50,000	50																	
<b>DISADVANTAGED COMMUNITY - TOTAL</b>	<b>50 (max)</b>	0																
Granted	50																	
<b>CONSOLIDATION - TOTAL</b>	<b>100 (max)</b>	0																
Achieve Compliance	100																	
Correct Deficiencies	60																	
Other	40																	
<b>COMP. WELLHEAD/SOURCE WATER PROTECT PLANS - TOTAL</b>	<b>100 (max)</b>	100																
Granted	100	■																
<b>TOTAL PRIORITY POINTS ASSIGNED</b>	<b>1000 (max)</b>	430																

**Michigan Drinking Water Revolving Fund**  
**Estimated Category Costs for FY2008 FINAL PPL**

Project #	Trans/Distribution	Treatment	Storage	Source	Other	Sum
7151-01	\$226,667		\$283,333			\$510,000
7217-01	\$1,300,000					\$1,300,000
7218-01	\$14,775,000					\$14,775,000
7221-01	\$3,080,000					\$3,080,000
7224-01	\$1,893,286		\$626,714			\$2,520,000
7225-01	\$5,606,233	\$257,167		\$1,851,600		\$7,715,000
7226-01	\$4,420,000					\$4,420,000
7229-01	\$1,415,000					\$1,415,000
7232-01	\$4,600,000					\$4,600,000
7233-01	\$470,000					\$470,000
7234-01	\$2,130,000			\$1,420,000		\$3,550,000
7235-01	\$650,000					\$650,000
7236-01			\$3,075,000			\$3,075,000
7237-01	\$5,268,128			\$2,146,872		\$7,415,000
7239-01		\$836,601		\$163,399		\$1,000,000
7240-01	\$6,450,000					\$6,450,000
7242-01	\$924,049	\$525,951				\$1,450,000
7243-01	\$401,172	\$1,208,828				\$1,610,000
7244-01	\$4,515,000					\$4,515,000
7246-01	\$625,000					\$625,000
7247-01	\$1,945,000					\$1,945,000
7248-01	\$310,000					\$310,000
7250-01	\$738,604	\$39,957		\$71,439		\$850,000
	\$61,743,139	\$2,868,504	\$3,985,047	\$5,653,310	\$0	\$74,250,000

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